# 09/822103

# **Refine Search**

Your wildcard search against 10000 terms has yielded the results below.

### Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Terms	Documents
L23 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	11

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L24

Database:



### **Search History**

DATE: Monday, July 31, 2006 Printable Copy Create Case

Set Name Query side by side	<u>Hit</u> <u>Count</u>	Set Name result set
DB=PGPB, $USPT$ , $USOC$ , $EPAB$ , $JPAB$ , $DWPI$ , $TDBD$ ; $THES=ASSIGNEE$ ; $PLUR=YBOP=OR$	ES;	
L24 L23 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	11	<u>L24</u>
<u>L23</u> 120 or 121 or 122	35	<u>L23</u>
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
(5832400   4899285   5893894   5315897   5410477   5757289   5748476   5411449   5508931   4148231   5501644   5371678   5661650   4743913    L22	32	<u>L22</u>
L21 ('6009374'  '5832400'  '6098005'  '6442467')[PN]	4	<u>L21</u>

DB=	=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L20</u>	(5832400   5893894   5315897   5757289   5748476   5411449   5508931   4148231   5501644   5661650   6176811   5737225   5790975   5024125   4635202   5684699   4208925   5177685   5048373   4896565   5247440   5571060   5545108   5499953   5716301)![PN]	25	<u>L20</u>
DB=	=PGPB, USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L19</u>	('6009374'  '6098005'  '6442467')[PN]	3	<u>L19</u>
<u>L18</u>	('6009374'  '5832400'  '6098005'  '6442467')[URPN]	54	<u>L18</u>
<u>L17</u>	L16 and 701/\$.ccls.	0	<u>L17</u>
<u>L16</u>	L14 and 19	0	<u>L16</u>
<u>L15</u>	L14 and 18	. 0	<u>L15</u>
<u>L14</u>	6009374.pn. or 6442467.pn. or 5832400.pn. or 6098005.pn.	4	<u>L14</u>
	=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; THES=ASSIGNEE; PLUR=YES;		
OP=O	$\mathcal{D}R$		
<u>L13</u>	L12 and (shift\$ same (adjust\$ or set\$) same (threshold\$ or value or reference))	16	<u>L13</u>
<u>L12</u>	110 or L11	31	<u>L12</u>
<u>L11</u>	L9 and @pd<=20010330	15	<u>L11</u>
<u>L10</u>	L9 and @ad<=20010330	31	<u>L10</u>
<u>L9</u>	.L8 and (control\$ with automatic\$ with transmission)	70	<u>L9</u>
<u>L8</u>	(learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)) and "gps" and (control\$ with transmi\$).clm.	788	<u>L8</u>
DB=	=PGPB, USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L7</u>	L6 and "gps"	5	<u>L7</u>
<u>L6</u>	(learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)).clm. and L1	55	<u>L6</u>
<u>L5</u>	L4 and "gps"	2	<u>L5</u>
<u>L4</u>	L2 and (learn\$ or "ai" or (artificial\$ adj intelligent\$) or (neural adj network\$)).clm.	20	<u>L4</u>
<u>L3</u>	L2 and gps.clm.	5	<u>L3</u>
<u>L2</u>	L1 and (control\$ with transmi\$ with signal\$).clm. and ((electronic\$ or electrical\$) adj signal\$).clm.	2526	<u>L2</u>
<u>L1</u>	(control\$ with transmi\$ with signal\$).clm. and (electronic? or electrical\$) adj signal?	5613	<u>L1</u>

# END OF SEARCH HISTORY



First Hit Fwd Refs

Previous Doc Go to Doc# Next Doc

Generate Collection Print

L24: Entry 2 of 11

File: USPT

Aug 1, 2000

JΡ

US-PAT-NO: 6098005

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with

road features

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Tsukamoto; Kazumasa Anjo JΡ Kawai; Masao Tokyo-to JΡ Tokyo-to

Aruga; Hideki

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Aisin AW Co., Ltd. JΡ 03 Kabushiki Kaisha Equos Research JP 03

APPL-NO: 08/923639 [PALM] DATE FILED: September 4, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO

APPL-DATE

JΡ 8-255436 September 4, 1996

INT-CL-ISSUED: [07] <u>F16</u> <u>H</u> 59/66

US-CL-ISSUED: 701/65; 701/55, 477/97 US-CL-CURRENT: 701/65; 477/97, 701/55

FIELD-OF-CLASSIFICATION-SEARCH: 701/55, 701/56, 701/58, 701/65, 701/59, 701/208,

477/97, 477/34

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL 5716301 February 1998 . Wild et al. 477/97

5832400 

November 1998

Takahashi et al.

701/53

5893894 April 1999

Moroto et al.

701/53

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO 0 745 788 A1 0 752 548 A2 61-134269

PUBN-DATE December 1996 January 1997 October 1986

COUNTRY EΡ EΡ

JР

CLASS

ART-UNIT: 361

PRIMARY-EXAMINER: Zanelli; Michael J.

ATTY-AGENT-FIRM: Lorusso & Loud

#### ABSTRACT:

There is provided control over transmission stages which suppresses unnecessary shifts to a higher speed based on road information stored in a navigation system to allow smooth acceleration. An intersection ahead of the vehicle in the traveling direction is detected based on the road information stored in the navigation system and, when the vehicle is decelerated as it approaches the intersection, an optimum transmission stage for acceleration is selected in advance in accordance with the speed of the vehicle by predicting the acceleration to be performed when exiting the intersection. This eliminates the need for a shift to a lower speed before effecting acceleration by pressing the accelerator and thereby ensures smooth acceleration.

8 Claims, 7 Drawing figures

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Next Doc

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First Hit Fwd Refs

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Generate Collection Print

L24: Entry 2 of 11

File: USPT

Aug 1, 2000

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with road features

## Detailed Description Text (19):

For example, as shown in FIG. 6, a center P of an intersection is identified as a <a href="reference">reference</a> point and an interval extending 10 meters before the point P and 20 meters beyond the point P is <a href="set">set</a> as an interval "e" in which <a href="shift">shift</a> control is to be performed. In the case of a curve, the deepest point of the curve ("clipping point") may be used as a <a href="reference">reference</a> point to <a href="set">set</a> predetermined distances before and behind such a point, thereby determining an interval in which control is to be performed.

#### Detailed Description Text (32):

First, the position of the vehicle is detected by the current position detecting unit 13 and the upcoming intersection, crossing or other road feature identified by a  $\underline{\text{shift reference}}$  point or node P (FIG. 6), is confirmed from the vehicle position. Then, a distance interval e for which control is to be performed is  $\underline{\text{set}}$  to extend between positions before and beyond the  $\underline{\text{reference}}$  point P, which positions are spaced apart from the  $\underline{\text{reference}}$  point by predetermined distances in the traveling direction (step S10). After the distance interval (road section) e for which control is to be provided is  $\underline{\text{set}}$ , control for the distance interval (FIG. 5) is commenced (step S20).

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First Hit

Your wildcard search against 10000 terms has yielded the results below.

### Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

**Search Results** - Record(s) 1 through 10 of 11 returned.

A

☐ 1. Document ID: US 6176811 B1

L24: Entry 1 of 11

File: USPT

Jan 23, 2001

US-PAT-NO: 6176811

DOCUMENT-IDENTIFIER: US 6176811 B1

TITLE: Increased-spontaneity automatic gear box

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 2. Document ID: US 6098005 A

L24: Entry 2 of 11

File: USPT

Aug 1, 2000

US-PAT-NO: 6098005

DOCUMENT-IDENTIFIER: US 6098005 A

TITLE: Vehicle transmission controller for changing gear ratios in accordance with

road features

Full Title | Citation | Front | Review | Classification | Date | Reference | Section | Province | Claims | KVMC | Draw, De



☐ 3. Document ID: US 5571060 A

L24: Entry 3 of 11

File: USPT

Nov 5, 1996

US-PAT-NO: 5571060

DOCUMENT-IDENTIFIER: US 5571060 A

TITLE: Process for correcting the shifting quality of an automatic transmission

Full Title Citation Front Review Classification Date Reference Seguences Attachments Claims KVMC Draw De

☐ 4. Document ID: US 5545108 A

L24: Entry 4 of 11

File: USPT

· Aug 13, 1996

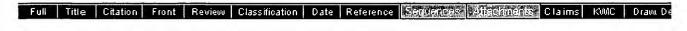
Record List Display Page 2 of 3

US-PAT-NO: 5545108

DOCUMENT-IDENTIFIER: US 5545108 A

TITLE: Arrangement and method for controlling an automatic shift device of a gear-

change transmission of a motor vehicle



A

☐ 5. Document ID: US 5411449 A

L24: Entry 5 of 11

File: USPT

May 2, 1995

US-PAT-NO: 5411449

DOCUMENT-IDENTIFIER: US 5411449 A

TITLE: Gear shift control apparatus



A

☐ 6. Document ID: US 5048373 A

L24: Entry 6 of 11

File: USPT

Sep 17, 1991

US-PAT-NO: 5048373

DOCUMENT-IDENTIFIER: US 5048373 A

\*\* See image for Certificate of Correction \*\*

TITLE: Control apparatus for automatic transmission

Full | Title | Citation | Front | Review | Classification | Date | Reference | Solvences | Alfabrica | Claims | KWC | Draw. De

۸

☐ 7. Document ID: US 5024125 A

L24: Entry 7 of 11

File: USPT

Jun 18, 1991

US-PAT-NO: 5024125

DOCUMENT-IDENTIFIER: US 5024125 A

TITLE: Shift control system for an automatic transmission

Full Title Citation Front Review Classification Date Reference Redience Altachments, Claims KMC Draw De

A □ 8. Document ID: US 4896565 A

L24: Entry 8 of 11

File: USPT

Jan 30, 1990

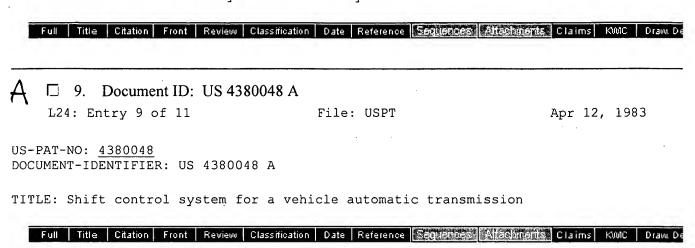
US-PAT-NO: <u>4896565</u>

DOCUMENT-IDENTIFIER: US 4896565 A

TITLE: Process for the gear change of the automatic transmission of motor vehicles

Record List Display Page 3 of 3

controlled with an electrohydraulic valve system



☐ 10. Document ID: US 4208925 A

L24: Entry 10 of 11

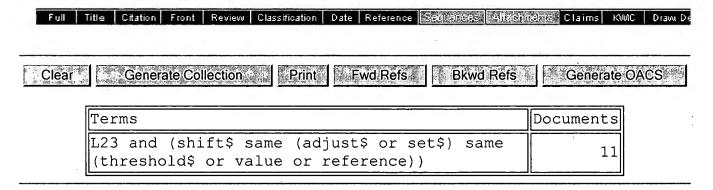
File: USPT

Jun 24, 1980

US-PAT-NO: 4208925

DOCUMENT-IDENTIFIER: US 4208925 A

TITLE: Electronic transmission control and method therefor



 Change Format Display Format: |-

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First Hit

Your wildcard search against 10000 terms has yielded the results below.

### Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 11 through 11 of 11 returned.

A

☐ 11. Document ID: US 4148231 A

L24: Entry 11 of 11

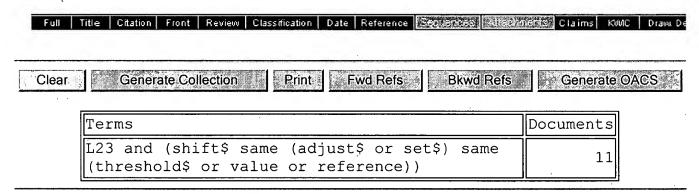
File: USPT

Apr 10, 1979

US-PAT-NO: 4148231

DOCUMENT-IDENTIFIER: US 4148231 A

TITLE: Automatic transmission control



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First Hit

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 10 of 16 returned.

A

☐ 1. Document ID: US 20020143454 A1

L13: Entry 1 of 16

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143454

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143454 A1

TITLE: Method and system for controlling an automatic transmission using a GPS

assist having a <u>learn</u> mode

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Bates, Cary Lee Rochester US MN Crenshaw, Robert James Apex NC US Day, Paul Reuben Rochester MN US Santosuosso, John Matthew Rochester MN US

US-CL-CURRENT: 701/51; 701/65

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

∠ □ 2. Document ID: US 20010049573 A1

L13: Entry 2 of 16

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049573

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010049573 A1

TITLE: CONTROL SYSTEM FOR AUTOMATIC VEHICLE TRANSMISSIONS

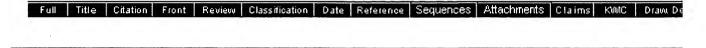
PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

OHASHI, TATSUYUKI	WAKO-SHI	JP
NAKAUCHI, NORIO	WAKO-SHI	JP
KONNO, KAZUYUKI	WAKO-SHI	JP
SAITO, YOSHIHARU	WAKO-SHI	JP
HAGIWARA, KENJI	WAKO-SHI	JP
WAKAMATSU, HIDEKI	WAKO-SHI	JP
MORITA, YUKIO	WAKO-SHI	JP
SHIMADA, TAKAMICHI	WAKO-SHI	JP

US-CL-CURRENT: 701/51; 477/97, 701/53



→ □ 3. Document ID: US 20010016795 A1

L13: Entry 3 of 16

File: PGPB

Aug 23, 2001

PGPUB-DOCUMENT-NUMBER: 20010016795

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010016795 A1

TITLE: System and method for controlling vehicle braking operation

PUBLICATION-DATE: August 23, 2001

INVENTOR-INFORMATION:

NAME CITY - STATE COUNTRY

Bellinger, Steven M. Columbus IN US

US-CL-CURRENT: 701/53; 701/70

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

4. Document ID: US 6819995 B2

L13: Entry 4 of 16 File: USPT

Nov 16, 2004

US-PAT-NO: 6819995

DOCUMENT-IDENTIFIER: US 6819995 B2

TITLE: System and method for controlling vehicle braking operation

Full Title Citation Front Review Classification Date Reference Seguences Alectrication Claims KWIC Draw De

☐ 5. Document ID: US 6516261 B2

L13: Entry 5 of 16 File: USPT

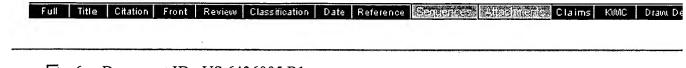
Feb 4, 2003

US-PAT-NO: 6516261

Record List Display Page 3 of 4

DOCUMENT-IDENTIFIER: US 6516261 B2

TITLE: Control system for automatic vehicle transmissions



**A □** 6. Document ID: US 6436005 B1

L13: Entry 6 of 16

File: USPT

Aug 20, 2002

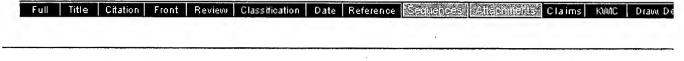
US-PAT-NO: 6436005

DOCUMENT-IDENTIFIER: US 6436005 B1

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: System for controlling drivetrain components to achieve fuel efficiency

goals



A 7. Document ID: US 6356555 B1

L13: Entry 7 of 16

File: USPT

Mar 12, 2002

US-PAT-NO: 6356555

DOCUMENT-IDENTIFIER: US 6356555 B1

TITLE: Apparatus and method for digital data transmission using orthogonal codes

Full Title Citation Front Review Classification Date Reference Sequences Alternation Claims KNIIC Draw. De 8. Document ID: US 6349253 B1

L13: Entry 8 of 16

File: USPT

Feb 19, 2002

US-PAT-NO: 6349253

DOCUMENT-IDENTIFIER: US 6349253 B1

\*\* See image for Certificate of Correction \*\*

TITLE: System and method for controlling downhill vehicle operation

Full Title Citation Front Review Classification Date Reference Sequences Allogomeris Claims KWC Draw, De

☐ 9. Document ID: US 6275760 B1

L13: Entry 9 of 16

File: USPT

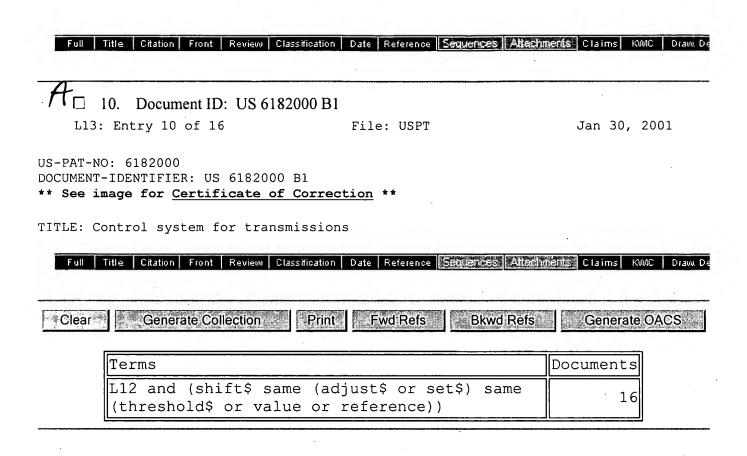
Aug 14, 2001

US-PAT-NO: 6275760

DOCUMENT-IDENTIFIER: US 6275760 B1

TITLE: Control system for <u>automatic</u> vehicle <u>transmissions</u>

Record List Display Page 4 of 4



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First Hit

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Bkwd Refs

**Search Results** - Record(s) 11 through 16 of 16 returned.

A

☐ 11. Document ID: US 6070118 A

L13: Entry 11 of 16

File: USPT

May 30, 2000

Aug 3, 1999

US-PAT-NO: 6070118

DOCUMENT-IDENTIFIER: US 6070118 A

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: Transmission control system using road data to control the transmission

Full Title Citation Front Review Classification Date Reference Sequences Akaciments Claims KWIC Draw Date A 12. Document ID: US 5931886 A

File: USPT

US-PAT-NO: 5931886

DOCUMENT-IDENTIFIER: US 5931886 A

L13: Entry 12 of 16

TITLE: Control system for vehicular automatic transmission

Full Title Citation Front Review Classification Date Reference Sequences starting Claims KWC Draw De

**★** □ 13. Document ID: US 5658213 A

L13: Entry 13 of 16

File: USPT

Aug 19, 1997

US-PAT-NO: 5658213

DOCUMENT-IDENTIFIER: US 5658213 A

TITLE: Power train control apparatus and method for a vehicle

Full Title Citation Front Review Classification Date Reference Sequences Plachments Claims KWIC Draw Da

**Δ<sup>\*</sup>** □ 14. Document ID: US 5445577 A

L13: Entry 14 of 16

File: USPT

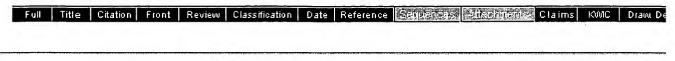
Aug 29, 1995

Record List Display Page 2 of 2

US-PAT-NO: 5445577

DOCUMENT-IDENTIFIER: US 5445577 A

TITLE: Method and apparatus for speed change control of an automatic transmission



△ 15. Document ID: US 5443432 A

L13: Entry 15 of 16

File: USPT

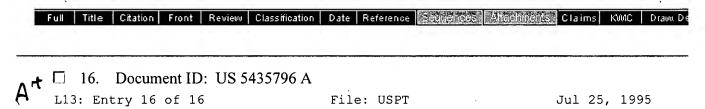
Aug 22, 1995

US-PAT-NO: 5443432

DOCUMENT-IDENTIFIER: US 5443432 A

TITLE: Method and apparatus for speed change control of an automotive automatic

transmission

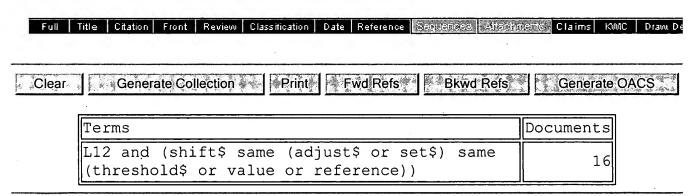


US-PAT-NO: 5435796

DOCUMENT-IDENTIFIER: US 5435796 A

TITLE: Method and apparatus for speed change <a href="control">control</a> of an automotive <a href="automatic">automatic</a>

transmission



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